

**BLUE ROCK INDUSTRIES
CUMBERLAND COUNTY
WESTBROOK, MAINE
A-140-71-G-R**

**DEPARTMENTAL
FINDINGS OF FACT AND ORDER
AIR EMISSION LICENSE**

After review of the air emission license renewal application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Blue Rock Industries located in Westbrook, Maine has applied to renew their Air Emission License permitting the operation of their concrete batch plant and their crushed stone and gravel facility.

B. Emission Equipment

Concrete Plant:

<u>Equipment</u>	<u>Process Rate</u> (cubic yards/hour)	<u>Control Devices</u>
Concrete Batch Plant	120	Baghouse
Pneumatic Conveyor	25 ton/hr	Baghouse

Rock Crushers:

<u>Designation</u>	<u>Powered</u>	<u>Process Rate</u> (tons/hour)	<u>Date of</u> <u>Control Device</u>	<u>Manufacture</u>
Primary	electrical	200	Spray Nozzles	Pre 1983
Secondary	electrical	200	Spray Nozzles	Pre 1983
Tertiary	electrical	200	Spray Nozzles and Baghouse	Pre 1983
Pri/Sec (PC-1)	electrical	60	Spray Nozzles	Pre 1983
Primary (PC-2)	electrical	100	Spray Nozzles	Pre 1983
Primary (PC-3)	electrical	178	Spray Nozzles	Pre 1983
Secondary (PC-4)	electrical	130	Spray Nozzles	Pre 1983
Tertiary (PC-5)	electrical	105	Spray Nozzles	Pre 1983

**BLUE ROCK INDUSTRIES
CUMBERLAND COUNTY
WESTBROOK, MAINE
A-140-71-G-R**

)
)
)
2

**DEPARTMENTAL
FINDINGS OF FACT AND ORDER
AIR EMISSION LICENSE**

PC - Portable Crusher

Diesel Generator:

<u>Source ID</u>	<u>Max. Capacity</u>	<u>Max. Firing Rate</u>	<u>Power Output</u>
Portable Diesel G-2	2.5 MMBtu/hr	17.9 gal/hr	500 kW

C. Application Classification

The application for Blue Rock does not include the licensing of increased emissions or the installation of new or modified equipment, therefore the license is considered to be a renewal of current licensed emissions units only.

II. BEST PRACTICAL TREATMENT

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent best practical treatment (BPT), as defined in Chapter 100 of the Bureau of Air Quality regulations.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emissions from the source being considered; and
- the economic feasibility for the type of establishment involved.

A Concrete Batch Plant

To meet the requirements of BPT for control of particulate matter (PM) emissions from the cement silo, particulate emissions shall be vented through a baghouse maintained for 99% removal efficiency. Visible emissions from the cement silo baghouse is limited to 5% opacity on a six (6) minute block average basis. All components of the concrete batch plant shall be maintained so as to prevent PM leaks. Particulate emissions from concrete batching operations shall not exceed 20% opacity on a six (6) minute block average basis, except for one (1) six (6) minute block average in a one (1) hour period.

B. Rock Crushers

The regulated pollutant from the rock crushers is particulate emissions. To meet the requirements of Best Practical Treatment (BPT) for control of particulate

matter (PM) emissions from the rock crushers, Blue Rock shall control visible emissions to no greater than 10% opacity on a six (6) minute block average basis.

Therefore, Blue Rock shall continue to maintain and operate water sprays for particulate control on all rock crushers.

C. Diesel Generator

The portable diesel generator is utilized primarily to provide electrical power to the rock crushers if commercial power is unavailable. Total fuel use in the diesel generator shall not exceed 150,000 gal/year of diesel fuel, based on a 12 month rolling total, with a maximum sulfur content of 0.5% by weight and is therefore considered to meet Best Practical Treatment (BPT)

To meet BPT visible emission requirements, Blue Rock shall not exceed an opacity of 30% on a 6 minute block average basis, except for no more than 2 six minute block averages in a 3 hour period.

D. Stock Piles and Roadways

BPT for all potential sources of fugitive PM emissions, including material stockpiles and unpaved roadways, shall be controlled by wetting with water, with calcium chloride, or other methods as approved by the Bureau of Air Quality to prevent visible emissions in excess of 10% opacity, based on a 3 minute block average basis.

III. AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a non-major source shall be determined on a case-by-case basis. Based on the information available in the file, and the similarity to existing sources, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source.

ORDER

Based on the above Findings and subject to conditions listed below the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

**BLUE ROCK INDUSTRIES
CUMBERLAND COUNTY
WESTBROOK, MAINE
A-140-71-G-R**

)
)
)
4

**DEPARTMENTAL
FINDINGS OF FACT AND ORDER
AIR EMISSION LICENSE**

The Department hereby grants Air Emission License Amendment A-140-71-G-R, subject to the following conditions:

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions.
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115.
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both.
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request.
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 MRSA §353.
- (6) The license does not convey any property rights of any sort, or any exclusive privilege.
- (7) The licensee shall maintain and operate all emission units and air pollution control systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions.
- (8) The licensee shall maintain sufficient records, to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request.

- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for the renewal of a license or amendment shall not stay any condition of the license.
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license.
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
- (i) perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - a. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - b. pursuant to any other requirement of this license to perform stack testing.
 - (ii) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - (iii) submit a written report to the Department within thirty (30) days from date of test completion.
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- (i) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and

- (ii) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
- (iii) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.
- (13) Notwithstanding any other provision in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement.
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emissions and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation.
- (15) Upon written request of the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.
- (16) Concrete Batch Plant
- a. Particulate emissions from the cement silo shall be vented through a baghouse and all components of the batch plant shall be maintained so as to prevent PM leaks.
 - b. To document maintenance of the cement silo baghouse, the licensee shall keep a maintenance log recording the date and location of all bag failures as well as all routine maintenance.

- c. Opacity from the cement silo baghouse is limited to no greater than 5% on a six minute block average basis.
- d. Fugitive PM emissions from the concrete batching operation shall be controlled so as to prevent visible emissions in excess of 20% opacity on a six minute block average basis.

(17) Rock Crushers

- a. Blue Rock shall operate and maintain spray nozzles for particulate control on all primary, secondary, and tertiary rock crushers. Visible emissions from the crushers shall be limited to no greater than 10% opacity on a six (6) minute block average basis.
- b. Blue Rock shall maintain a log detailing the maintenance on the water spray nozzles. The maintenance log shall be located at the facility whenever the facility is in operation.
- c. Blue Rock shall maintain a log quantifying the hours of operation and production on a daily basis for all of the primary, secondary and tertiary rock crushers. The operation log shall be located at the facility whenever the facility is in operation.

(18) Diesel Generator

- a. Fuel use records and receipts for the portable diesel generator shall be maintained for at least six years and available to the Department upon request.
- b. Based on the use of 150,000 gal/year of diesel fuel (12 month rolling total), with a sulfur content not to exceed 0.5%, emissions from the diesel generator shall be limited to the following:

	(Each generator)	(Combined)
<u>Pollutant</u>	<u>lb/MMBtu</u>	<u>TPY</u>
PM	0.23	2.4
PM ₁₀	0.23	2.4
SO ₂	0.53	5.5
NO _x	2.97	30.5
CO	0.44	4.5
VOC	0.17	1.7

- c. Visible emissions from each of the diesel generators shall not exceed 30% opacity on a six minute block average basis, except for no more than 2 six minute block averages in a 3 hour period.

**BLUE ROCK INDUSTRIES
CUMBERLAND COUNTY
WESTBROOK, MAINE
A-140-71-G-R**

)
)
)
8

**DEPARTMENTAL
FINDINGS OF FACT AND ORDER
AIR EMISSION LICENSE**

- (19) Potential sources of fugitive PM emissions including material stockpiles and unpaved roadways shall be controlled by wetting with water, with calcium chloride, or other methods as approved by the Bureau of Air Quality to prevent visible emissions in excess of 10% opacity based on a three minute block average basis.
- (20) Blue Rock shall notify the Bureau of Air Quality, by a written notification at least 10 days in advance, prior to relocation of any equipment carried on this license. Written notification shall also be made to the municipality where the equipment will be relocated to, except in the case of an unorganized territory where notification will be made to the respective county commissioners.
- (21) Blue Rock shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order.
- (22) This license shall expire five years from the signature date below.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 1999.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
BROOKE E. BARNES, ACTING COMMISSIONER

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: January 19, 1999

Date of application acceptance: February 8, 1999

Date filed with the Board of Environmental Protection _____

This Order prepared by Edwin L. Cousins, Bureau of Air Quality